



Cura 374 CON seq list 0605
SEQUENCE LISTING

<110> Taupier, Raymond
Padigaru, Muralidhara
Rastelli, Luca
Spaderna, Steven
Shimkets, Richard
Zerhusen, Bryan
Spytek, Kimberly
Shenoy, Suresh
Li, Li
Gusev, Vladimir
Grosse, William
Alsobrook, John
Lepley, Denise
Burgess, Catherine
Gerlach, Valerie
Ellerman, Karen
MacDougall, John
Stone, David
Smithson, Glennda

<120> Novel Proteins and Nucleic Acids Encoding Same

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<140> 10/624,932
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<150> 09/918,779
<151> 2001-07-03

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<151> 2000-07-28

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<151> 2000-08-04

<150> 60/223,752
<151> 2000-08-08

<150> 60/223,762
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<150> 60/225,146
<151> 2000-08-14

<150> 60/225,392
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<151> 2000-08-16

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Cura 374 CON seq list 0605

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<150> 60/281,645
<151> 2001-04-05

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<170> PatentIn Ver. 2.1

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Cura 374 CON seq list 0605

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35 40 45
Glu Pro Glu Asp Val Tyr Ile Val Lys Asn Lys Pro Val Leu Leu Val
50 55 60
Cys Lys Ala Val Pro Ala Thr Gln Ile Phe Phe Lys Cys Asn Gly Glu
65 70 75 80
Trp Val Arg Gln Val Asp His Val Ile Glu Arg Ser Thr Asp Gly Ser
85 90 95
Ser Gly Leu Pro Thr Met Glu Val Arg Ile Asn Val Ser Arg Gln Gln
100 105 110
Val Glu Lys Val Phe Gly Leu Glu Glu Tyr Trp Cys Gln Cys Val Ala
115 120 125
Trp Ser Ser Ser Gly Thr Thr Lys Ser Gln Lys Ala Tyr Ile Arg Ile
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Ala Arg Leu Arg Lys Asn Phe Glu Gln Glu Pro Leu Ala Lys Glu Val
145 150 155 160
Ser Leu Glu Gln Gly Ile Val Leu Pro Cys Arg Pro Pro Glu Gly Ile
165 170 175
Pro Pro Ala Glu Val Glu Trp Leu Arg Asn Glu Asp Leu Val Asp Pro
180 185 190
Ser Leu Asp Pro Asn Val Tyr Ile Thr Arg Glu His Ser Leu Val Val
195 200 205
Arg Gln Ala Arg Leu Ala Asp Thr Ala Asn Tyr Thr Cys Val Ala Lys
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Asn Ile Val Ala Arg Arg Arg Ser Ala Ser Ala Val Ile Val Tyr
225 230 235 240
Val Asn Gly Gly Trp Ser Thr Trp Thr Glu Trp Ser Val Cys Ser Ala
245 250 255
Ser Cys Gly Arg Gly Trp Gln Lys Arg Ser Arg Ser Cys Thr Asn Pro
260 265 270
Ala Pro Leu Asn Gly Gly Ala Phe Cys Glu Gly Gln Asn Val Gln Lys
275 280 285
Thr Ala Cys Ala Thr Leu Cys Pro Val Asp Gly Ser Trp Ser Pro Trp
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Cura 374 CON seq list 0605

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 305 310 315 320

Glu Cys Ser Asp Pro Ala Pro Arg Asn Gly Gly Glu Glu Cys Gln Gly
 325 330 335

Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser Asp Leu Cys Val His Ser
 340 345 350

Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr Val Gly Leu Ile Ala Val
 355 360 365

Ala Val Cys Leu Val Leu Leu Leu Val Leu Ile Leu Val Tyr Cys
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Arg Lys Lys Glu Gly Leu Asp Ser Asp Val Ala Asp Ser Ser Ile Leu
 385 390 395 400

Thr Ser Gly Phe Gln Pro Val Ser Ile Lys Pro Ser Lys Ala Asp Asn
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Pro His Leu Leu Thr Ile Gln Pro Asp Leu Ser Thr Thr Thr Thr
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Cura 374 CON seq list 0605

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675 680 685

Gly Gly Gln Leu Ile Gln Glu Pro Arg Val Leu His Phe Lys Asp Ser
690 695 700

Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu Trp
705 710 715 720

Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His Ile
725 730 735

Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu Arg
740 745 750

Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp Gln
755 760 765

Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr Lys
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785 790 795 800

Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile Arg
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Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala Asp
820 825 830

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850 855 860

Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala Val
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<213> Homo sapiens

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Cura 374 CON seq list 0605

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35 40 45

Gln Cys Leu Lys Asp Arg Ser Asn Phe Arg Phe Phe Gln Val Ser Lys
50 55 60

Ser Asn Leu Phe Ser Lys Glu Asn Ala Leu Ile Ala Lys Lys Glu Met
65 70 75 80

Leu Gln Gln Ile Phe Asn Thr Phe Ser Leu Asn Val Ser Gln Ser Phe
85 90 95

Trp Asn Glu Ser Ser Leu Glu Arg Phe Leu Ser Arg Leu Tyr Gln Gln
100 105 110

Ile Glu Lys Thr Glu Val Cys Leu Glu Gln Glu Thr Arg Lys Glu Gly
115 120 125

Arg Ser Leu Leu Gln Arg Gly Asn Thr Ile Phe Arg Leu Lys Asn Tyr
130 135 140

Phe Gln Gly Ile His Asn Tyr Leu His His Gln Asn Tyr Ser Asn Cys
145 150 155 160

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Cura 374 CON seq list 0605

<211> 841
<212> PRT
<213> Homo sapiens

<400> 6

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35 40 45

Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr
50 55 60

Gly Thr Val Arg Arg Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro
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Ser Glu Leu Val Lys Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val
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Asn Glu Val Val Arg Tyr Glu Ala Gly Tyr Val Val Cys Ala Val Ile
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Ala Gly Leu Tyr Leu Leu Leu Val Pro Thr Ala Gly Leu Cys Phe Cys
115 120 125

Cys Cys Arg Cys His Arg Arg Cys Gly Gly Arg Val Lys Thr Glu His
130 135 140

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145 150 155 160

Thr Thr Leu Leu Leu Leu Ile Gly Val Val Cys Ala Phe Val Thr Asn
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Gln Arg Thr His Glu Gln Met Gly Pro Ser Ile Glu Ala Met Pro Glu
180 185 190

Thr Leu Leu Ser Leu Trp Gly Leu Val Ser Asp Val Pro Gln Glu Leu
195 200 205

Gln Ala Val Ala Gln Gln Phe Ser Leu Pro Gln Glu Gln Val Ser Glu
210 215 220

Glu Leu Asp Gly Val Gly Val Ser Ile Gly Ser Ala Ile His Thr Gln
225 230 235 240

Leu Arg Ser Ser Val Tyr Pro Leu Leu Ala Ala Val Gly Ser Leu Gly
245 250 255

Gln Val Leu Gln Val Ser Val His His Leu Gln Thr Leu Asn Ala Thr
260 265 270

Val Val Glu Leu Gln Ala Gly Gln Gln Asp Leu Glu Pro Ala Ile Arg
275 280 285

Glu His Arg Asp Arg Leu Leu Glu Leu Leu Gln Glu Ala Arg Cys Gln
290 295 300

Gly Asp Cys Ala Gly Ala Leu Ser Trp Ala Arg Thr Leu Glu Leu Gly

Cura 374 CON seq list 0605

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Ser Thr Phe Asn Ala Leu Pro Ala Leu	Ala Ala Met Gln Thr	Ser Ser	
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370	375	380	
Arg Thr Leu Ala Glu Gly Phe Pro Gly	Leu Glu Ala Ala Ser	Arg Trp	
385	390	395	400
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420	425	430	
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Ser Phe Leu Phe Ala Ala Pro Leu Ile	Leu Leu Val Phe Ala	Thr Phe	
485	490	495	
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Gly Glu Leu Phe Glu Phe Ala Asp	Thr Pro Gly Asn Leu	Pro Pro Ser	
515	520	525	
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Gln Ala Tyr Gln Gln Cys Lys Glu	Gly Ala Ala Leu Trp	Thr Val Leu	
545	550	555	560
Gln Leu Asn Asp Ser Tyr Asp Leu	Glu His Leu Asp Ile	Asn Gln	
565	570	575	
Tyr Thr Asn Lys Leu Arg Gln Glu	Leu Gln Ser Leu Lys	Val Asp Thr	
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Leu Gln Ser Ser Gly Leu Gln Arg	Ile His Tyr Pro Asp	Phe Leu Val	
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625	630	635	640
Glu Leu Gln Gly Leu Ala Gln Asp	Asn Ser Val Leu	Gly Gln	

Cura 374 CON seq list 0605

645

650

655

Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
 660 665 670

Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg
 675 680 685

Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Val Ala Ala Val Gly Gly
 690 695 700

Asp Leu Glu Thr Ser Asp Val Leu Ala Asn Val Thr Tyr Leu Lys Gly
 705 710 715 720

Glu Leu Pro Ala Trp Ala Ala Arg Ile Leu Arg Asn Val Ser Glu Cys
 725 730 735

Phe Leu Ala Arg Glu Met Gly Tyr Phe Ser Gln Tyr Val Ala Trp Val
 740 745 750

Arg Glu Glu Val Thr Gln Arg Ile Ala Thr Cys Gln Pro Leu Ser Gly
 755 760 765

Ala Leu Asp Asn Ser Arg Val Ile Leu Cys Asp Met Met Ala Asp Pro
 770 775 780

Trp Asn Ala Phe Trp Phe Cys Leu Ala Trp Cys Thr Phe Phe Leu Ile
 785 790 795 800

Pro Ser Ile Ile Phe Ala Val Lys Thr Ser Lys Tyr Phe Arg Pro Ile
 805 810 815

Arg Lys Arg Leu Ser Ser Thr Ser Ser Glu Glu Thr Gln Leu Phe His
 820 825 830

Ile Pro Arg Val Thr Ser Leu Lys Leu
 835 840

<210> 7

<211> 3261

<212> DNA

<213> Homo sapiens

<400> 7

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 cggtagcagg cgggctacgt ggtatgcgt gtgatgcgg gcctctacct gctgctgtg 360
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 aagacagagc acaaggcgct ggcctgtgag cgcgcggccc tcatgttctt cctgctgtg 480
 accaccctct tgctgtgtat tggtgtggc tggcctttg tcaccaacca ggcacgcatt 540
 gaacagatgg gccccagcat cgaggccatg cctgagacacc tgctcagcct ctggggcctg 600
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Cura 374 CON seq list 0605

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gttgacgg	gagaaagtg	a				3261

<210> 8

<211> 841

<212> PRT

<213> Homo sapiens

<400> 8

Met Lys His Thr Leu Ala Leu Leu Ala Pro Leu Leu Gly Leu Gly Leu
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Gly Leu Ala Leu Ser Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe
20 25 30

Leu Gly Pro Ala Glu His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg
35 40 45

Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr
50 55 60

Gly Thr Val Arg Arg Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro
65 70 75 80

Ser Glu Leu Val Lys Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val
85 90 95

Cura 374 CON seq list 0605

Asn	Glu	Val	Val	Arg	Tyr	Glu	Ala	Gly	Tyr	Val	Val	Cys	Ala	Val	Ile
100						105						110			
Ala	Gly	Leu	Tyr	Leu	Leu	Leu	Val	Pro	Thr	Ala	Gly	Leu	Cys	Phe	Cys
115						120					125				
Cys	Cys	Arg	Cys	His	Arg	Arg	Cys	Gly	Gly	Arg	Val	Lys	Thr	Glu	His
130					135						140				
Lys	Ala	Leu	Ala	Cys	Glu	Arg	Ala	Ala	Leu	Met	Val	Phe	Leu	Leu	Leu
145					150					155			160		
Thr	Thr	Leu	Leu	Leu	Leu	Ile	Gly	Val	Val	Cys	Ala	Phe	Val	Thr	Asn
						165		170				175			
Gln	Arg	Thr	His	Glu	Gln	Met	Gly	Pro	Ser	Ile	Glu	Ala	Met	Pro	Glu
						180	185				190				
Thr	Leu	Leu	Ser	Leu	Trp	Gly	Leu	Val	Ser	Asp	Val	Pro	Gln	Glu	Leu
						195	200				205				
Gln	Ala	Val	Ala	Gln	Gln	Phe	Ser	Leu	Pro	Gln	Glu	Gln	Val	Ser	Glu
						210	215				220				
Glu	Leu	Asp	Gly	Val	Gly	Val	Ser	Ile	Gly	Ser	Ala	Ile	His	Thr	Gln
					225	230			235				240		
Leu	Arg	Ser	Ser	Val	Tyr	Pro	Leu	Leu	Ala	Ala	Val	Gly	Ser	Leu	Gly
						245		250				255			
Gln	Val	Leu	Gln	Val	Ser	Val	His	His	Leu	Gln	Thr	Leu	Asn	Ala	Thr
						260		265				270			
Val	Val	Glu	Leu	Gln	Ala	Gly	Gln	Gln	Asp	Leu	Glu	Pro	Ala	Ile	Arg
						275		280				285			
Glu	His	Arg	Asp	Arg	Leu	Leu	Glu	Leu	Leu	Gln	Glu	Ala	Arg	Cys	Gln
						290	295				300				
Gly	Asp	Cys	Ala	Gly	Ala	Leu	Ser	Trp	Ala	Arg	Thr	Leu	Glu	Leu	Gly
						305	310			315			320		
Ala	Asp	Phe	Ser	Gln	Val	Pro	Ser	Val	Asp	His	Val	Leu	His	Gln	Leu
						325		330				335			
Lys	Gly	Val	Pro	Glu	Ala	Asn	Phe	Ser	Ser	Met	Val	Gln	Glu	Glu	Asn
						340		345				350			
Ser	Thr	Phe	Asn	Ala	Leu	Pro	Ala	Leu	Ala	Ala	Met	Gln	Thr	Ser	Ser
						355		360				365			
Val	Val	Gln	Glu	Leu	Lys	Lys	Ala	Val	Ala	Gln	Gln	Pro	Glu	Gly	Val
						370		375				380			
Arg	Thr	Leu	Ala	Glu	Gly	Phe	Pro	Gly	Leu	Glu	Ala	Ala	Ser	Arg	Trp
						385		390			395			400	
Ala	Gln	Ala	Leu	Gln	Glu	Val	Glu	Glu	Ser	Ser	Arg	Pro	Tyr	Leu	Gln
						405			410				415		
Glu	Val	Gln	Arg	Tyr	Glu	Thr	Tyr	Arg	Trp	Ile	Val	Gly	Cys	Val	Leu
						420		425				430			

Cura 374 CON seq list 0605

Cys Ser Val Val Leu Phe Val Val Leu Cys Asn Leu Leu Gly Leu Asn
 435 440 445
 Leu Gly Ile Trp Gly Leu Ser Ala Arg Asp Asp Pro Ser His Pro Glu
 450 455 460
 Ala Lys Gly Glu Ala Gly Ala Arg Phe Leu Met Ala Gly Val Gly Leu
 465 470 475 480
 Ser Phe Leu Phe Ala Ala Pro Leu Ile Leu Leu Val Phe Ala Thr Phe
 485 490 495
 Leu Val Gly Gly Asn Val Gln Thr Leu Val Cys Gln Ser Trp Glu Asn
 500 505 510
 Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser
 515 520 525
 Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His
 530 535 540
 Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu
 545 550 555 560
 Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln
 565 570 575
 Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr
 580 585 590
 Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala
 595 600 605
 Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val
 610 615 620
 Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln
 625 630 635 640
 Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln
 645 650 655
 Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
 660 665 670
 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg
 675 680 685
 Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Val Ala Ala Val Gly Gly
 690 695 700
 Asp Leu Glu Thr Ser Asp Val Leu Ala Asn Val Thr Tyr Leu Lys Gly
 705 710 715 720
 Glu Leu Pro Ala Trp Ala Ala Arg Ile Leu Arg Asn Val Ser Glu Cys
 725 730 735
 Phe Leu Ala Arg Glu Met Gly Tyr Phe Ser Gln Tyr Val Ala Trp Val
 740 745 750
 Arg Glu Glu Val Thr Gln Arg Ile Ala Thr Cys Gln Pro Leu Ser Gly
 755 760 765

Cura 374 CON seq list 0605

Ala	Leu	Asp	Asn
770	775	780	785
Trp	Asn	Ala	Phe
785	790	795	800
Trp	Phe	Cys	Leu
795	800	805	810
Ala	Trp	Cys	Thr
805	810	815	820
Thr	Phe	Phe	Leu
815	820	825	830
Phe	Arg	Pro	Ile
820	825	830	835
Ile	Pro	Arg	Val
835	840	845	850
Thr	Ser	Leu	Lys
845	850	855	860
Ser	Glu	Glu	Thr
850	855	860	865
Gln	Leu	Phe	His
860	865	870	875
Leu	Phe	His	

<210> 9
<211> 2007
<212> DNA
<213> Homo sapiens

<400> 9

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<210> 10
<211> 664
<212> PRT
<213> Homo sapiens

Cura 374 CON seq list 0605

<400> 10
 Met Gly Pro Gly Ala Ser Gly Asp Gly Val Arg Thr Glu Thr Ala Pro
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 His Ile Ala Leu Asp Ser Arg Val Gly Leu His Ala Tyr Asp Ile Ser
 20 25 30
 Val Val Val Ile Tyr Phe Val Phe Val Ile Ala Val Gly Ile Trp Ser
 35 40 45
 Ser Ile Arg Ala Ser Arg Gly Thr Ile Gly Gly Tyr Phe Leu Ala Gly
 50 55 60
 Arg Ser Met Ser Trp Trp Pro Val Ile Gly Ala Ser Leu Met Ser Ser
 65 70 75 80
 Asn Val Gly Ser Gly Leu Phe Ile Gly Leu Ala Gly Thr Gly Ala Ala
 85 90 95
 Gly Gly Leu Ala Val Gly Gly Phe Glu Trp Asn Ala Thr Trp Leu Leu
 100 105 110
 Leu Ala Leu Gly Trp Val Phe Val Pro Val Tyr Ile Ala Ala Gly Val
 115 120 125
 Val Thr Met Pro Gln Tyr Leu Lys Lys Arg Phe Gly Gly Gln Arg Ile
 130 135 140
 Gln Met Tyr Met Ser Val Leu Ser Leu Ile Leu Tyr Ile Phe Thr Lys
 145 150 155 160
 Ile Ser Val Asp Ile Phe Ser Gly Ala Leu Phe Ile Gln Met Ala Leu
 165 170 175
 Gly Trp Asn Leu Tyr Leu Ser Thr Gly Ile Leu Leu Val Val Thr Ala
 180 185 190
 Val Tyr Thr Ile Ala Gly Gly Leu Met Ala Val Ile Tyr Thr Asp
 195 200 205
 Ala Leu Gln Thr Val Ile Met Val Gly Gly Ala Leu Val Leu Met Phe
 210 215 220
 Leu Gly Lys Glu Glu Thr Gly Trp Tyr Pro Gly Leu Glu Gln Arg Tyr
 225 230 235 240
 Arg Gln Ala Ile Pro Asn Val Thr Val Pro Asn Thr Thr Cys His Leu
 245 250 255
 Pro Arg Pro Asp Ala Phe His Met Leu Arg Asp Pro Val Ser Gly Asp
 260 265 270
 Ile Pro Trp Pro Gly Leu Ile Phe Gly Leu Thr Val Leu Ala Thr Trp
 275 280 285
 Cys Trp Cys Thr Asp Gln Val Ile Val Gln Arg Ser Leu Ser Ala Lys
 290 295 300
 Ser Leu Ser His Ala Lys Gly Gly Ser Val Leu Gly Gly Tyr Leu Lys
 305 310 315 320
 Ile Leu Pro Met Phe Phe Ile Val Met Pro Gly Met Ile Ser Arg Ala
 325 330 335

Cura 374 CON seq list 0605

Leu Phe Pro Glu Ile Ala Cys Met Cys Val Pro Val Cys Thr His Ala
340 345 350

Cys Ala Ala Arg Lys Arg Lys Glu Gly Val Leu Gln Gly Leu Val Val
355 360 365

Ala Val Arg Leu Ser Pro Gly Leu Arg Gly Leu Met Ile Ala Val Ile
370 375 380

Met Ala Ala Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ser Ser
385 390 395 400

Thr Leu Phe Thr Ile Asp Val Trp Gln Arg Phe Arg Arg Lys Ser Thr
405 410 415

Glu Gln Glu Leu Met Val Val Gly Arg Val Phe Val Val Phe Leu Val
420 425 430

Val Ile Ser Ile Leu Trp Ile Pro Ile Ile Gln Ser Ser Asn Ser Gly
435 440 445

Gln Leu Phe Asp Tyr Ile Gln Ala Val Thr Ser Tyr Leu Ala Pro Pro
450 455 460

Ile Thr Ala Leu Phe Leu Leu Ala Ile Phe Cys Lys Arg Val Thr Glu
465 470 475 480

Gln Gly Ala Phe Trp Gly Leu Val Phe Gly Leu Gly Val Gly Leu Leu
485 490 495

Arg Met Ile Leu Glu Phe Ser Tyr Pro Ala Pro Ala Cys Gly Glu Val
500 505 510

Asp Arg Arg Pro Ala Val Leu Lys Asp Phe His Tyr Leu Tyr Phe Ala
515 520 525

Ile Leu Leu Cys Gly Leu Thr Ala Ile Val Ile Val Ile Val Ser Leu
530 535 540

Cys Thr Thr Pro Ile Pro Glu Leu His Thr Tyr Ile Tyr Cys Gly Thr
545 550 555 560

Ile His Asn Ser Lys Asp Phe Glu Pro Ile Gln Ile Ser Asn Asn Glu
565 570 575

Gln Ala Leu Ser Pro Ala Glu Lys Ala Ala Leu Glu Gln Lys Leu Thr
580 585 590

Ser Ile Glu Glu Glu Ser Ser Gly Phe Val Pro Pro Ala Trp Ser Trp
595 600 605

Phe Cys Gly Leu Ser Gly Thr Pro Glu Gln Ala Leu Ser Pro Ala Glu
610 615 620

Lys Ala Ala Leu Glu Gln Lys Leu Thr Ser Ile Glu Glu Glu Pro Leu
625 630 635 640

Trp Arg His Val Cys Asn Ile Asn Ala Val Leu Leu Leu Ala Ile Asn
645 650 655

Ile Phe Leu Trp Gly Tyr Phe Ala
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Cura 374 CON seq list 0605

<210> 11
<211> 2153
<212> DNA
<213> Homo sapiens

<400> 11
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<210> 12
<211> 717
<212> PRT
<213> Homo sapiens

<400> 12
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35 40 45
Ala Ser Ser Glu Pro Glu Glu Gly Ile Ser Val Phe Glu Leu Asp Tyr
50 55 60

Cura 374 CON seq list 0605

Asp Tyr Val Gln Ile Pro Tyr Glu Val Thr Leu Trp Ile Leu Leu Ala
 65 70 75 80
 Ser Leu Ala Lys Ile Gly Phe His Leu Tyr His Arg Leu Pro Gly Leu
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 Met Pro Glu Ser Cys Leu Leu Ile Leu Val Gly Ala Leu Val Gly Gly
 100 105 110
 Ile Ile Phe Gly Thr Asp His Lys Ser Pro Pro Val Met Asp Ser Ser
 115 120 125
 Ile Tyr Phe Leu Tyr Leu Leu Pro Pro Ile Val Leu Glu Gly Gly Tyr
 130 135 140
 Phe Met Pro Thr Arg Pro Phe Phe Glu Asn Ile Gly Ser Ile Leu Trp
 145 150 155 160
 Trp Ala Val Leu Gly Ala Leu Ile Asn Ala Leu Gly Ile Gly Leu Ser
 165 170 175
 Leu Tyr Leu Ile Cys Gln Val Lys Ala Phe Gly Leu Gly Asp Val Asn
 180 185 190
 Leu Leu Gln Asn Leu Leu Phe Gly Ser Leu Ile Ser Ala Val Asp Pro
 195 200 205
 Val Ala Val Leu Ala Val Phe Glu Glu Ala Arg Val Asn Glu Gln Leu
 210 215 220
 Tyr Met Met Ile Phe Gly Glu Ala Leu Leu Asn Asp Gly Ile Thr Val
 225 230 235 240
 Val Leu Tyr Asn Met Leu Ile Ala Phe Thr Lys Met His Lys Phe Glu
 245 250 255
 Asp Ile Glu Thr Val Asp Ile Leu Ala Gly Cys Ala Arg Phe Ile Val
 260 265 270
 Val Gly Leu Gly Gly Val Leu Phe Gly Ile Val Phe Gly Phe Ile Ser
 275 280 285
 Ala Phe Ile Thr Arg Phe Thr Gln Asn Ile Ser Ala Ile Glu Pro Leu
 290 295 300
 Ile Val Phe Met Phe Ser Tyr Leu Ser Tyr Leu Ala Ala Glu Thr Leu
 305 310 315 320
 Tyr Leu Ser Gly Ile Leu Ala Ile Thr Ala Cys Ala Val Thr Met Lys
 325 330 335
 Lys Tyr Val Glu Glu Asn Val Ser Gln Thr Ser Tyr Thr Ile Lys
 340 345 350
 Tyr Phe Met Lys Met Leu Ser Ser Val Ser Glu Thr Leu Ile Phe Ile
 355 360 365
 Phe Met Gly Val Ser Thr Val Gly Lys Asn His Glu Trp Asn Trp Ala
 370 375 380
 Phe Ile Cys Phe Thr Leu Ala Phe Cys Gln Ile Trp Arg Ala Ile Ser
 385 390 395 400

Cura 374 CON seq list 0605

Val Phe Ala Leu Phe Tyr Ile Ser Asn Gln Phe Arg Thr Phe Pro Phe
405 410 415

Ser Ile Lys Asp Gln Cys Ile Ile Phe Tyr Ser Gly Val Arg Gly Ala
420 425 430

Gly Ser Phe Ser Leu Ala Phe Leu Leu Pro Leu Ser Leu Phe Pro Arg
435 440 445

Lys Lys Met Phe Val Thr Ala Thr Leu Val Val Ile Tyr Phe Thr Val
450 455 460

Phe Ile Gln Gly Ile Thr Val Gly Pro Leu Val Arg Tyr Leu Asp Val
465 470 475 480

Lys Lys Thr Asn Lys Lys Glu Ser Ile Asn Glu Glu Leu His Ile Arg
485 490 495

Leu Met Asp His Leu Lys Ala Gly Ile Glu Asp Val Cys Gly His Trp
500 505 510

Ser His Tyr Gln Val Arg Asp Lys Phe Lys Lys Phe Asp His Arg Tyr
515 520 525

Leu Arg Lys Ile Leu Ile Arg Lys Asn Leu Pro Lys Ser Ser Ile Val
530 535 540

Ser Leu Tyr Lys Lys Leu Glu Met Lys Gln Ala Ile Glu Met Val Glu
545 550 555 560

Thr Gly Ile Leu Ser Ser Thr Ala Phe Ser Ile Pro His Gln Ala Gln
565 570 575

Arg Ile Gln Gly Ile Lys Arg Leu Ser Pro Glu Asp Val Glu Ser Ile
580 585 590

Arg Asp Ile Leu Thr Ser Asn Met Tyr Gln Val Arg Gln Arg Thr Leu
595 600 605

Ser Tyr Asn Lys Tyr Asn Leu Lys Pro Gln Thr Ser Glu Lys Gln Ala
610 615 620

Lys Glu Ile Leu Ile Arg Arg Gln Asn Thr Leu Arg Glu Ser Met Arg
625 630 635 640

Lys Gly His Ser Leu Pro Trp Gly Lys Pro Ala Gly Thr Lys Asn Ile
645 650 655

Arg Tyr Leu Ser Tyr Pro Tyr Gly Asn Pro Gln Ser Ala Gly Arg Asp
660 665 670

Thr Arg Ala Ala Gly Phe Ser Gly Lys Leu Pro Thr Trp Leu Leu Leu
675 680 685

Trp Leu Arg Phe Gly Arg Gly Gln Leu Thr Met Asp Thr Ala Gly
690 695 700

Thr Ile Thr Gly Pro Ile Val Leu Cys Ser Lys Lys Asn
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Cura 374 CON seq list 0605

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<212> DNA

<213> Homo sapiens

<400> 13

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 gagataaattc caccgccttc aagagaaaca aacgaaagaa gcaaacaggt gaattataat 180
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<210> 14

<211> 46

<212> PRT

<213> Homo sapiens

<400> 14

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 35 40 45

<210> 15

<211> 2144

<212> DNA

<213> Homo sapiens

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 cctttggag tattcacggg gctgtccaat ctcactaaagc ttgacattag tgagaataag 420
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Cura 374 CON seq list 0605

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tcgaaaggca	ggcaggcagg	catgtgtcag	agcccttcac	acagtggat	actaagtgtt	2040
tgcgttgca	atattggcgt	tctgggatc	tcagtaatga	acctgaatat	ttggctcaca	2100
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<210> 16

<211> 606

<212> PRT

<213> Homo sapiens

<400> 16

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Glu	Cys	Ser	Ala	Gln	Asn	Lys	Ser	Val	Ser	Cys	His	Arg	Arg	Arg	Leu
						35		40			45				

Ile	Ala	Ile	Pro	Glu	Gly	Ile	Pro	Ile	Glu	Thr	Lys	Ile	Leu	Asp	Leu
						50		55		60					

Ser	Lys	Asn	Arg	Leu	Lys	Ser	Val	Asn	Pro	Glu	Glu	Phe	Ile	Ser	Tyr
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Pro	Leu	Leu	Glu	Glu	Ile	Asp	Leu	Ser	Asp	Asn	Ile	Ile	Ala	Asn	Val
					85			90		95					

Glu	Pro	Gly	Ala	Phe	Asn	Asn	Leu	Phe	Asn	Leu	Arg	Ser	Leu	Arg	Leu
					100			105			110				

Lys	Gly	Asn	Arg	Leu	Lys	Leu	Val	Pro	Leu	Gly	Val	Phe	Thr	Gly	Leu
					115		120			125					

Ser	Asn	Leu	Thr	Lys	Leu	Asp	Ile	Ser	Glu	Asn	Lys	Ile	Val	Ile	Leu
					130		135			140					

Leu	Asp	Tyr	Met	Phe	Gln	Asp	Leu	His	Asn	Leu	Lys	Ser	Leu	Glu	Val
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Gly	Asp	Asn	Asp	Leu	Val	Tyr	Ile	Ser	His	Arg	Ala	Phe	Ser	Gly	Leu
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Leu	Ser	Leu	Glu	Gln	Leu	Thr	Leu	Glu	Lys	Cys	Asn	Leu	Thr	Ala	Val
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Pro	Thr	Glu	Ala	Leu	Ser	His	Leu	Arg	Ser	Leu	Ile	Ser	Leu	His	Leu
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Lys	His	Leu	Asn	Ile	Asn	Asn	Met	Pro	Val	Tyr	Ala	Phe	Lys	Arg	Leu
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Phe	His	Leu	Lys	His	Leu	Glu	Ile	Asp	Tyr	Trp	Pro	Leu	Leu	Asp	Met
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Met	Pro	Ala	Asn	Ser	Leu	Tyr	Gly	Leu	Asn	Leu	Thr	Ser	Leu	Ser	Val
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Cura 374 CON seq list 0605

Thr Asn Thr Asn Leu Ser Thr Val Pro Phe Leu Ala Phe Lys His Leu
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 Val Tyr Leu Thr His Leu Asn Leu Ser Tyr Asn Pro Ile Ser Thr Ile
 275 280 285
 Glu Ala Gly Met Phe Ser Asp Leu Ile Arg Leu Gln Glu Leu His Ile
 290 295 300
 Val Gly Ala Gln Leu Arg Thr Ile Glu Pro His Ser Phe Gln Gly Leu
 305 310 315 320
 Arg Phe Leu Arg Val Leu Asn Val Ser Gln Asn Leu Leu Glu Thr Leu
 325 330 335
 Glu Glu Asn Val Phe Ser Ser Pro Arg Ala Leu Glu Val Leu Ser Ile
 340 345 350
 Asn Asn Asn Pro Leu Ala Cys Asp Cys Arg Leu Leu Trp Ile Leu Gln
 355 360 365
 Arg Gln Pro Thr Leu Gln Phe Gly Gly Gln Gln Pro Met Cys Ala Gly
 370 375 380
 Pro Asp Thr Ile Arg Glu Arg Ser Phe Lys Asp Phe His Ser Thr Ala
 385 390 395 400
 Leu Ser Phe Tyr Phe Thr Cys Lys Lys Pro Lys Ile Arg Glu Lys Lys
 405 410 415
 Leu Gln His Leu Leu Val Asp Glu Gly Gln Thr Val Gln Leu Glu Cys
 420 425 430
 Ser Ala Asp Gly Asp Pro Gln Pro Val Ile Ser Trp Val Thr Pro Arg
 435 440 445
 Arg Arg Phe Ile Thr Thr Lys Ser Asn Gly Arg Ala Thr Val Leu Gly
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 Asp Gly Thr Leu Glu Ile Arg Phe Ala Gln Asp Gln Asp Ser Gly Met
 465 470 475 480
 Tyr Val Cys Ile Ala Ser Asn Ala Ala Gly Asn Asp Thr Phe Thr Ala
 485 490 495
 Ser Leu Thr Val Lys Gly Phe Ala Ser Asp Arg Phe Leu Tyr Ala Asn
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 Arg Thr Pro Met Tyr Met Thr Asp Ser Asn Asp Thr Ile Ser Asn Gly
 515 520 525
 Ser Asn Ala Asn Thr Phe Ser Leu Asp Leu Lys Thr Ile Leu Val Ser
 530 535 540
 Thr Ala Met Gly Cys Phe Thr Phe Leu Gly Val Val Leu Phe Cys Phe
 545 550 555 560
 Leu Leu Leu Phe Val Trp Ser Arg Gly Lys Gly Lys His Lys Asn Ser
 565 570 575
 Ile Asp Leu Glu Tyr Val Pro Lys Lys Asn His Gly Ala Val Val Glu
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Cura 374 CON seq list 0605
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<211> 2187

<212> DNA

<213> Homo

225 Homo sapiens

<400> 17
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<210> 18

<211> 606

<212> PRT

<213> Homo sapiens

<400> 18

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GLU Cys Ser Ala Glu Asp Lys Ser Val Ser Cys His Arg Arg Arg Leu
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Cura 374 CON seq list 0605

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Ser Lys Asn Arg Leu Lys Ser Val Asn Pro Glu Glu Phe Ile Ser Tyr
 65 70 75 80

Pro Leu Leu Glu Glu Ile Asp Leu Ser Asp Asn Ile Ile Ala Asn Val
 85 90 95

Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn Leu Arg Ser Leu Arg Leu
 100 105 110

Lys Gly Asn Arg Leu Lys Leu Val Pro Leu Gly Val Phe Thr Gly Leu
 115 120 125

Ser Asn Leu Thr Lys Leu Asp Ile Ser Glu Asn Lys Ile Val Ile Leu
 130 135 140

Leu Asp Tyr Met Phe Gln Asp Leu His Asn Leu Lys Ser Leu Glu Val
 145 150 155 160

Gly Asp Asn Asp Leu Val Tyr Ile Ser His Arg Ala Phe Ser Gly Leu
 165 170 175

Leu Ser Leu Glu Gln Leu Thr Leu Glu Lys Cys Asn Leu Thr Ala Val
 180 185 190

Pro Thr Glu Ala Leu Ser His Leu Arg Ser Leu Ile Ser Leu His Leu
 195 200 205

Lys His Leu Asn Ile Asn Asn Met Pro Val Tyr Thr Phe Lys Arg Leu
 210 215 220

Phe His Leu Lys His Leu Glu Ile Asp Tyr Trp Pro Leu Leu Asp Met
 225 230 235 240

Met Pro Ala Asn Ser Leu Tyr Gly Leu Asn Leu Thr Pro Leu Ser Val
 245 250 255

Thr Asn Thr Asn Leu Ser Thr Val Pro Phe Leu Ala Phe Lys His Leu
 260 265 270

Val Tyr Leu Thr His Leu Asn Leu Ser Tyr Asn Pro Ile Ser Thr Ile
 275 280 285

Glu Ala Gly Met Phe Ser Asp Leu Ile Arg Leu Gln Glu Leu His Ile
 290 295 300

Val Gly Ala Gln Leu Arg Thr Ile Glu Pro His Ser Phe Gln Gly Leu
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Arg Phe Leu Arg Val Leu Asn Val Ser Gln Asn Leu Leu Glu Thr Leu
 325 330 335

Glu Glu Asn Val Phe Ser Ser Pro Arg Ala Leu Glu Val Leu Ser Ile
 340 345 350

Asn Asn Asn Pro Leu Ala Cys Asp Cys Arg Leu Leu Trp Ile Leu Gln
 355 360 365

Arg Gln Pro Thr Leu Gln Phe Gly Gly Gln Gln Pro Met Cys Ala Gly
 370 375 380

Cura 374 CON seq list 0605

Pro Asp Thr Ile Arg Glu Arg Ser Phe Lys Asp Phe His Ser Thr Ala
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 405 410 415
 Leu Gln His Leu Leu Val Asp Glu Gly Gln Thr Val Gln Leu Glu Cys
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 Ser Ala Asp Gly Asp Pro Gln Pro Val Ile Ser Trp Val Thr Pro Arg
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 450 455 460
 Asp Gly Thr Leu Glu Ile Arg Phe Ala Gln Asp Gln Asp Ser Gly Met
 465 470 475 480
 Tyr Val Cys Ile Ala Ser Asn Ala Ala Gly Asn Asp Thr Phe Thr Ala
 485 490 495
 Ser Leu Thr Val Lys Gly Phe Ala Ser Asp Arg Phe Leu Tyr Ala Asn
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 Arg Thr Pro Met Tyr Met Thr Asp Ser Asn Asp Thr Ile Ser Asn Gly
 515 520 525
 Thr Asn Ala Asn Thr Phe Ser Leu Asp Leu Lys Thr Ile Leu Val Ser
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 Thr Ala Met Gly Cys Phe Thr Phe Leu Gly Val Val Leu Phe Cys Phe
 545 550 555 560
 Leu Leu Leu Phe Val Trp Ser Arg Gly Lys Gly Lys His Lys Asn Ser
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 595 600 605

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 <211> 1215
 <212> DNA
 <213> Homo sapiens

<400> 19
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Cura 374 CON seq list 0605

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<210> 20

<211> 380

<212> PRT

<213> Homo sapiens

<400> 20

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Phe	Phe	Ser	Phe	Ala	Gln	Val	Val	Ile	Glu	Ala	Asn	Ser	Trp	Trp	Ser
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Leu	Gly	Met	Asn	Asn	Pro	Val	Gln	Met	Ser	Glu	Val	Tyr	Ile	Ile	Gly
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Ala	Gln	Pro	Leu	Cys	Ser	Gln	Leu	Ala	Gly	Leu	Ser	Gln	Gly	Gln	Lys
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Lys	Leu	Cys	His	Leu	Tyr	Gln	Asp	His	Met	Gln	Tyr	Ile	Gly	Glu	Gly
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Ala	Lys	Thr	Gly	Ile	Lys	Glu	Cys	Gln	Tyr	Gln	Phe	Arg	His	Arg	Arg
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Gln	Ile	Gly	Ser	Arg	Glu	Thr	Ala	Phe	Thr	Tyr	Ala	Val	Ser	Ala	Ala
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210					215				220						

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Cura 374 CON seq list 0605

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Ala Ala Ala Met Arg Leu Asn Ser Arg Gly Lys Leu Val Gln Val Asn
275 280 285

Ser Arg Phe Asn Ser Pro Thr Thr Gln Asp Leu Val Tyr Ile Asp Pro
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Gln Gly Arg Leu Cys Asn Lys Thr Ser Glu Gly Met Asp Gly Cys Glu
325 330 335

Leu Met Cys Cys Gly Arg Gly Tyr Asp Gln Phe Lys Thr Val Gln Thr
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370 375 380

<210> 21

<211> 4113

<212> DNA

<213> Homo sapiens

<400> 21

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Cura 374 CON seq list 0605

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<210> 22

<211> 380

<212> PRT

<213> Homo sapiens

<400> 22

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35 40 45

Leu Gly Met Asn Asn Pro Val Gln Met Ser Glu Val Tyr Ile Ile Gly
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Ala Gln Pro Leu Cys Ser Gln Leu Ala Gly Leu Ser Gln Gly Gln Lys
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Lys Leu Cys His Leu Tyr Gln Asp His Met Gln Tyr Ile Gly Glu Gly
85 90 95

Cura 374 CON seq list 0605

Ala Lys Thr Gly Ile Lys Glu Cys Gln Tyr Gln Phe Arg His Arg Arg
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Gly Val Val Asn Ala Ile Ser Arg Ala Cys Arg Glu Gly Glu Leu Ser
145 150 155 160
Thr Cys Gly Cys Ser Arg Thr Ala Arg Pro Lys Asp Leu Pro Arg Asp
165 170 175
Trp Leu Trp Gly Gly Cys Gly Asp Asn Val Glu Tyr Gly Tyr Arg Phe
180 185 190
Ala Lys Glu Phe Val Asp Ala Arg Glu Arg Glu Lys Asn Phe Ala Lys
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Gly Ser Glu Glu Gln Gly Arg Val Leu Met Asn Leu Gln Asn Asn Glu
210 215 220
Ala Gly Arg Arg Ala Val Tyr Lys Met Ala Asp Val Ala Cys Lys Cys
225 230 235 240
His Gly Val Ser Gly Ser Cys Ser Leu Lys Thr Cys Trp Leu Gln Leu
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Ala Glu Phe Arg Lys Val Gly Asp Arg Leu Lys Glu Lys Tyr Asp Ser
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Ala Ala Ala Met Arg Leu Asn Ser Arg Gly Lys Leu Val Gln Val Asn
275 280 285
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Ser Pro Asp Tyr Cys Val Arg Asn Glu Ser Thr Gly Ser Leu Gly Thr
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325 330 335
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<210> 23

<211> 1214

<212> DNA

<213> Homo sapiens

<400> 23

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Cura 374 CON seq list 0605

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<210> 24

<211> 365

<212> PRT

<213> Homo sapiens

<400> 24

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Cura 374 CON seq list 0605

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Cura 374 CON seq list 0605

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cagccaggcc	gagaggaggg	ggccctggga	atgtggcatg	aggctccca	gctgcagggc	4080
tggaggggggt	ggaacacacaag	gtgatgcag	gcccaactcc	tggaagccaa	gagctccatg	4140
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<210> 26
 <211> 1210
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1185)
 <223> Wherein xaa is any amino acid as defined in the specification

<400> 26

Cura 374 CON seq list 0605

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 1 5 10 15

Ala Leu Cys Ala Ala Ala Gly Ser Arg Thr Pro Glu Leu His Leu Ser
 20 25 30

Gly Lys Leu Ser Asp Tyr Gly Val Thr Val Pro Cys Ser Thr Asp Phe
 35 40 45

Arg Gly Arg Phe Leu Ser His Val Val Ser Gly Pro Ala Ala Ala Ser
 50 55 60

Ala Gly Ser Met Val Val Asp Thr Pro Pro Thr Leu Pro Arg His Ser
 65 70 75 80

Ser His Leu Arg Val Ala Arg Ser Pro Leu His Pro Gly Gly Thr Leu
 85 90 95

Trp Pro Gly Arg Val Gly Arg His Ser Leu Tyr Phe Asn Val Thr Val
 100 105 110

Phe Gly Lys Glu Leu His Leu Arg Leu Arg Pro Asn Arg Arg Leu Val
 115 120 125

Val Pro Gly Ser Ser Val Glu Trp Gln Glu Asp Phe Arg Glu Leu Phe
 130 135 140

Arg Gln Pro Leu Arg Gln Glu Cys Val Tyr Thr Gly Gly Val Thr Gly
 145 150 155 160

Met Pro Gly Ala Ala Val Ala Ile Ser Asn Cys Asp Gly Leu Cys Ala
 165 170 175

Gly Pro Ala Gly Leu Ile Arg Thr Asp Ser Thr Asp Phe Phe Ile Glu
 180 185 190

Pro Leu Glu Arg Gly Gln Gln Glu Lys Glu Ala Ser Gly Arg Thr His
 195 200 205

Val Val Tyr Arg Arg Glu Ala Val Gln Gln Asp Phe Gly Leu Gly Asp
 210 215 220

Leu Pro Asn Leu Leu Gly Leu Val Gly Asp Gln Leu Gly Asp Thr Glu
 225 230 235 240

Arg Lys Arg Arg His Ala Lys Pro Gly Ser Tyr Ser Ile Glu Val Leu
 245 250 255

Leu Val Val Asp Asp Ser Val Val Arg Phe His Gly Lys Glu His Val
 260 265 270

Gln Asn Tyr Val Leu Thr Leu Met Asn Ile Val Ser Val Asp Glu Ile
 275 280 285

Tyr His Asp Glu Ser Leu Gly Val His Ile Asn Ile Ala Leu Val Arg
 290 295 300

Leu Ile Met Val Gly Tyr Arg Gln Ser Leu Ser Leu Ile Glu Arg Gly
 305 310 315 320

Asn Pro Ser Arg Ser Leu Glu Gln Val Cys Arg Trp Ala His Ser Gln
 325 330 335

Cura 374 CON seq list 0605

Gln Arg Gln Asp Pro Ser His Ala Glu His His Asp His Val Val Phe
 340 345 350 350
 Leu Thr Arg Gln Asp Phe Gly Pro Ser Gly Tyr Ala Pro Val Thr Gly
 355 360 365
 Met Cys His Pro Leu Arg Ser Cys Ala Leu Asn His Glu Asp Gly Phe
 370 375 380
 Ser Ser Ala Phe Val Ile Ala His Glu Thr Gly His Val Leu Gly Met
 385 390 395 400
 Glu His Asp Gly Gln Gly Asn Gly Cys Ala Asp Glu Thr Ser Leu Gly
 405 410 415
 Ser Val Met Ala Pro Leu Val Gln Ala Ala Phe His Arg Phe His Trp
 420 425 430
 Ser Arg Cys Ser Lys Leu Glu Leu Ser Arg Tyr Leu Pro Ser Tyr Asp
 435 440 445
 Cys Leu Leu Asp Asp Pro Phe Asp Pro Ala Trp Pro Gln Pro Pro Glu
 450 455 460
 Leu Pro Gly Ile Asn Tyr Ser Met Asp Glu Gln Cys Arg Phe Asp Phe
 465 470 475 480
 Gly Ser Gly Tyr Gln Thr Cys Leu Ala Phe Arg Thr Phe Glu Pro Cys
 485 490 495
 Lys Gln Leu Trp Cys Ser His Pro Asp Asn Pro Tyr Phe Cys Lys Thr
 500 505 510
 Lys Lys Gly Pro Pro Leu Asp Gly Thr Glu Cys Ala Pro Gly Lys Trp
 515 520 525
 Cys Phe Lys Gly His Cys Ile Trp Lys Ser Pro Glu Gln Thr Tyr Gly
 530 535 540
 Gln Asp Gly Gly Trp Ser Ser Trp Thr Lys Phe Gly Ser Cys Ser Arg
 545 550 555 560
 Ser Cys Gly Gly Val Arg Ser Arg Ser Arg Ser Cys Asn Asn Pro
 565 570 575
 Ser Pro Ala Tyr Gly Arg Leu Cys Leu Gly Pro Met Phe Glu Tyr
 580 585 590
 Gln Val Cys Asn Ser Glu Glu Cys Pro Gly Thr Tyr Glu Asp Phe Arg
 595 600 605
 Ala Gln Gln Cys Ala Lys Arg Asn Ser Tyr Tyr Val His Gln Asn Ala
 610 615 620
 Lys His Ser Trp Val Pro Tyr Glu Pro Asp Asp Asp Ala Gln Lys Cys
 625 630 635 640
 Glu Leu Ile Cys Gln Ser Ala Asp Thr Gly Asp Val Val Phe Met Asn
 645 650 655
 Gln Val Val His Asp Gly Thr Arg Cys Ser Tyr Arg Asp Pro Tyr Ser
 660 665 670

Cura 374 CON seq list 0605

Val	Cys	Ala	Arg	Gly	Glu	Cys	Val	Pro	Val	Gly	Cys	Asp	Lys	Glu	Val
675					680								685		
Gly	Ser	Met	Lys	Ala	Asp	Asp	Lys	Cys	Gly	Val	Cys	Gly	Gly	Asp	Asn
690					695					700					
Ser	His	Cys	Arg	Thr	Val	Lys	Gly	Thr	Leu	Gly	Lys	Ala	Ser	Lys	Gln
705					710				715						720
Ala	Gly	Ala	Leu	Lys	Leu	Val	Gln	Ile	Pro	Ala	Gly	Ala	Arg	His	Ile
725						730							735		
Gln	Ile	Glu	Ala	Leu	Glu	Lys	Ser	Pro	His	Arg	Ile	Val	Val	Lys	Asn
740						745							750		
Gln	Val	Thr	Gly	Ser	Phe	Ile	Leu	Asn	Pro	Lys	Gly	Lys	Glu	Ala	Thr
755						760							765		
Ser	Arg	Thr	Phe	Thr	Ala	Met	Gly	Leu	Glu	Trp	Glu	Asp	Ala	Val	Glu
770					775							780			
Asp	Ala	Lys	Glu	Ser	Leu	Lys	Thr	Ser	Gly	Pro	Leu	Pro	Glu	Ala	Ile
785					790				795						800
Ala	Ile	Leu	Ala	Leu	Pro	Pro	Thr	Glu	Gly	Gly	Pro	Arg	Ser	Ser	Leu
805								810						815	
Ala	Tyr	Lys	Tyr	Val	Ile	His	Glu	Asp	Leu	Leu	Pro	Leu	Ile	Gly	Ser
820						825								830	
Asn	Asn	Val	Leu	Leu	Glu	Glu	Met	Asp	Thr	Tyr	Glu	Trp	Ala	Leu	Lys
835						840								845	
Ser	Trp	Ala	Pro	Cys	Ser	Lys	Ala	Cys	Gly	Gly	Ile	Gln	Phe	Thr	
850					855						860				
Lys	Tyr	Gly	Cys	Arg	Arg	Arg	Arg	Asp	His	His	Met	Val	Gln	Arg	His
865					870				875					880	
Leu	Cys	Asp	His	Lys	Lys	Arg	Pro	Lys	Pro	Ile	Arg	Arg	Arg	Cys	Asn
885						890								895	
Gln	His	Pro	Cys	Ser	Gln	Pro	Val	Trp	Val	Thr	Glu	Glu	Trp	Gly	Ala
900						905								910	
Cys	Ser	Arg	Ser	Cys	Gly	Lys	Leu	Gly	Val	Gln	Thr	Arg	Gly	Ile	Gln
915						920								925	
Cys	Leu	Leu	Pro	Leu	Ser	Asn	Gly	Thr	His	Lys	Val	Met	Pro	Ala	Lys
930					935						940				
Ala	Cys	Ala	Gly	Asp	Arg	Pro	Glu	Ala	Arg	Arg	Pro	Cys	Leu	Arg	Val
945					950				955					960	
Pro	Cys	Pro	Ala	Gln	Trp	Arg	Leu	Gly	Ala	Trp	Ser	Gln	Cys	Ser	Ala
965						970							975		
Thr	Cys	Gly	Glu	Gly	Ile	Gln	Gln	Arg	Gln	Val	Val	Cys	Arg	Thr	Asn
980						985							990		
Ala	Asn	Ser	Leu	Gly	His	Cys	Glu	Gly	Asp	Arg	Pro	Asp	Thr	Val	Gln
995						1000							1005		

Cura 374 CON seq list 0605

Val	Cys	Ser	Leu	Pro	Ala	Cys	Asn	Lys	Ile	Ser	Ser	Thr	Glu	Pro	Cys
1010															
1015															1020
Thr	Gly	Asp	Arg	Ser	Val	Phe	Cys	Gln	Met	Glu	Val	Leu	Asp	Arg	Tyr
1025															1040
Cys	Ser	Ile	Pro	Gly	Tyr	His	Arg	Leu	Cys	Cys	Val	Ser	Cys	Ile	Lys
Lys	Ala	Ser	Gly	Pro	Asn	Pro	Gly	Pro	Asp	Pro	Gly	Pro	Thr	Ser	Leu
1060															1070
Pro	Pro	Phe	Ser	Thr	Pro	Gly	Ser	Pro	Leu	Pro	Gly	Pro	Gln	Asp	Pro
1075															1085
Ala	Asp	Ala	Ala	Glu	Pro	Pro	Gly	Lys	Pro	Thr	Gly	Ser	Glu	Asp	His
1090															1100
Gln	His	Gly	Arg	Ala	Thr	Gln	Leu	Pro	Gly	Ala	Leu	Asp	Thr	Ser	Ser
1105															1120
Pro	Gly	Thr	Gln	His	Pro	Phe	Ala	Pro	Glu	Thr	Pro	Ile	Pro	Gly	Ala
1125															1135
Ser	Trp	Ser	Ile	Ser	Pro	Thr	Thr	Pro	Gly	Gly	Leu	Pro	Trp	Gly	Trp
1140															1150
Thr	Gln	Thr	Pro	Thr	Pro	Val	Pro	Glu	Asp	Lys	Gly	Gln	Pro	Gly	Glu
1155															1165
Asp	Leu	Arg	His	Pro	Gly	Thr	Ser	Leu	Pro	Ala	Ala	Ser	Pro	Val	Thr
1170															1180
Xaa	Ala	Val	Pro	Cys	His	Pro	Thr	Gly	Thr	Phe	Thr	Leu	Cys	Val	Leu
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<211> 1390
<212> DNA
<213> Homo sapiens

<400> 27

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gaagaagaag aaaacaaagg gaccagatgc tgccagcaaa ctgccactga tgacaccc 180
caactctgtgc cagttaaaat tattgaaatt agagataatt aaatactgtc ttctctatgaa 240
ggaagaattc attagaaatc aggaacaaat gaaactattt aagggaaagc aagaggagga 300
aagatcaaaa ttggatgtatc tgagggggac ccccatgtca gtagtaacct tggaaagagat 360
tattgtatc aatcatgtcc tcatgtctac atctgtggc tcagagatc tggggctca 420
gaggatctt ttggatgtatc atctgtatc acctggctgc tcgggtctgc tcaaccacaa 480
ggttcggtgt gtatgtatggg tgctgtatgg tgcacacggat accctgtatc caatgtatgaa 540
ggtggaaag accccccagg agacctgtgt tgatatactggg gggttggaca gccaaattca 600
ggaaatataag gatattgtgg agcttccctt cacacattt gatatattatg aagagatggg 660
tataaaggccc cctaaggggat tcatttacta tggtccaccc ggcacaggta aaaccc 720
agccaaagca gtagcaaacc acatcttagc cactttcttg caagtgtatc gctctgaatt 780
tattcagaaaa taccttacatg atggggccaa actcatatgg gatatttttc tagttgtatc 840
agaacatgca ctttccatca tggttatttga tggaaatttgc gctatttaga caaaaagatg 900
tgactcaaatt tctgtatgtt agagagaaat tgcacaaata atgctggaaa tggtaacca 960
gttggatgtt tttgatttca ggggagatgt gaaagttatc atatccacaa gcccata 1020

Cura 374 CON seq list 0605

aaccttggat	ctagcaactta	tcagaccagg	ctacactgac	aggaagctca	agttccccct	1080
gcctgatgaa	aagactaaga	agcacatctt	tcagatgac	acaagcagga	ttacgctggc	1140
caatgataca	atcctggaca	actccatcat	ggctaaagat	gacctctt	gtacagacct	1200
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aatatggaaaac	ttcaaaaaat	ctcaagaaaa	tgttctttat	aaagaacagg	aagacacccc	1320
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accagatatt						1390

<210> 28

<211> 452

<212> PRT

<213> Homo sapiens

<400> 28

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Asp	Asp	Arg	Asp	Lys	Lys	Lys	Tyr	Glu	Pro	Pro	Ile	Pro	Ala	Arg
							20	25			30			

Val	Arg	Lys	Lys	Lys	Lys	Thr	Lys	Gly	Pro	Asp	Ala	Ala	Ser	Lys	Leu
						35	40			45					

Pro	Leu	Met	Thr	Pro	His	Thr	Leu	Cys	Gln	Leu	Lys	Leu	Leu	Lys	Leu
						50	55			60					

Glu	Ile	Ile	Lys	Tyr	Cys	Leu	Leu	Met	Lys	Glu	Glu	Phe	Ile	Arg	Asn
					65	70			75			80			

Gln	Glu	Gln	Met	Lys	Leu	Leu	Glu	Gly	Lys	Gln	Glu	Glu	Glu	Arg	Ser
					85			90			95				

Lys	Val	Asp	Asp	Leu	Arg	Gly	Thr	Pro	Met	Ser	Val	Val	Thr	Leu	Glu
					100			105			110				

Glu	Ile	Ile	Asp	Asp	Asn	His	Ala	Ile	Met	Ser	Thr	Ser	Val	Gly	Ser
					115			120			125				

Glu	His	Leu	Trp	Ala	Gln	Ser	Ile	Leu	Val	Asp	Lys	Asp	Leu	Leu	Glu
					130			135			140				

Pro	Gly	Cys	Ser	Val	Leu	Leu	Asn	His	Lys	Val	Arg	Ala	Val	Ile	Trp
					145			150		155		160			

Val	Leu	Met	Asp	Asp	Thr	Asp	Thr	Leu	Val	Thr	Met	Met	Lys	Val	Glu
					165			170		175					

Lys	Thr	Pro	Gln	Glu	Thr	Cys	Val	Asp	Thr	Gly	Gly	Leu	Asp	Ser	Gln
					180			185				190			

Ile	Gln	Glu	Ile	Lys	Glu	Phe	Val	Glu	Leu	Pro	Leu	Thr	His	Ser	Glu
					195			200			205				

Tyr	Tyr	Glu	Glu	Met	Gly	Ile	Lys	Pro	Pro	Lys	Gly	Val	Ile	His	Tyr
					210			215			220				

Gly	Pro	Pro	Gly	Thr	Gly	Lys	Thr	Leu	Leu	Ala	Lys	Ala	Val	Ala	Asn
					225			230			235			240	

His	Ile	Leu	Ala	Thr	Phe	Leu	Gln	Val	Ile	Ser	Ser	Glu	Phe	Ile	Gln
					245			250			255				

Cura 374 CON seq list 0605
Lys Tyr Leu His Asp Gly Pro Lys Leu Ile Trp Glu Leu Phe Leu Val
260 265 270
Ala Glu Glu His Ala Pro Ser Ile Met Phe Ile Asp Glu Ile Asp Ala
275 280 285
Ile Arg Thr Lys Arg Cys Asp Ser Asn Ser Asp Ser Glu Arg Glu Ile
290 295 300
Gln Gln Ile Met Leu Glu Met Leu Asn Gln Leu Asp Gly Phe Asp Ser
305 310 315 320
Arg Gly Asp Val Lys Val Ile Ile Ser Thr Ser Arg Ile Glu Thr Leu
325 330 335
Asp Leu Ala Leu Ile Arg Pro Gly Tyr Thr Asp Arg Lys Leu Lys Phe
340 345 350
Pro Leu Pro Asp Glu Lys Thr Lys Lys His Ile Phe Gln Met His Thr
355 360 365
Ser Arg Ile Thr Leu Ala Asn Asp Thr Ile Leu Asp Asn Ser Ile Met
370 375 380
Ala Lys Asp Asp Leu Ser Cys Thr Asp Leu Lys Ala Ile Cys Thr Glu
385 390 395 400
Ala Ser Leu Met Ala Leu Lys Glu His Gly Met Lys Val Thr Asn Glu
405 410 415
Asn Phe Lys Lys Ser Gln Glu Asn Val Leu Tyr Lys Glu Gln Glu Asp
420 425 430
Thr Pro Lys Gly Leu Cys Leu Gly Ser Lys Arg Lys Lys Gly Lys Gly
435 440 445
Pro Asp Ser Phe
450

<210> 29
<211> 22
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 29
ctgcacctca aggacagtta cc 22

<210> 30
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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primers

<400> 30

ctatccatcc acgatgtgcc cagct

<210> 31

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide primers

<400> 31

tgacaaggag cttacttttc ca

22

<210> 32

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide primers

<400> 32

ccgttcactc ttgcaaagg

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<210> 33

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide primers

<400> 33

tccaaaggat tcacaactac ttacacca

28

<210> 34

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide primers

<400> 34

ggcacagttg ctataatttt gg

22

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide primers

Cura 374 CON seq list 0605

<400> 35
ctcctggact ccctctatgg 20

<210> 36
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
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<400> 36
ctctcggtgg tgcagctcaa tccttt 26

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligonucleotide primers

<400> 37
gggcctttac caactctgaa 20

<210> 38
<211> 22
<212> DNA
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<220>
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<400> 38
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<210> 39
<211> 26
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<213> Artificial Sequence

<220>
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<400> 39
cacctacctg aaaggagagc tgcctg 26

<210> 40
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Cura 374 CON seq list 0605
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primers

<400> 40
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<210> 41
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primers

<400> 41
ccagaggatc cagatgtaca tg 22

<210> 42
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<212> DNA
<213> Artificial Sequence

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<400> 42
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<210> 43
<211> 22
<212> DNA
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<400> 43
gggctccaga gaagatgtct ac 22

<210> 44
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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<400> 44
ccagaggatc cagatgtaca tg 22

<210> 45
<211> 27
<212> DNA
<213> Artificial Sequence

Cura 374 CON seq list 0605

<220>
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<400> 45
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<210> 46
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 46
agggctccag agaagatgtc ta 22

<210> 47
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 47
ctggtcaggt acctggatgt ta 22

<210> 48
<211> 26
<212> DNA
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<220>
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primers

<400> 48
tccatcaatg aagagttca tattcg 26

<210> 49
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<212> DNA
<213> Artificial Sequence

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primers

<400> 49
cagccttaa gtgatccatc ag 22

<210> 50
<211> 21

Cura 374 CON seq list 0605

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 50

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21

<210> 51

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 51

ccgccttcaa gagaaacaaa cgaaag

26

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 52

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20

<210> 53

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 53

caatatgcct gtgtatgcct tt

22

<210> 54

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
primers

<400> 54

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26

Cura 374 CON seq list 0605

<210> 55
<211> 22
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<213> Artificial Sequence

<220>
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primers

<400> 55
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22

<210> 56
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primers

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22

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primers

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22

<210> 58
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primers

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24

<210> 59
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primers

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ccaagttctt cctagtggtt tt

22

Cura 374 CON seq list 0605

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primers

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26

<210> 61
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primers

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Asn Glu Gln Lys
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<400> 63
Asn His Gln Lys
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<400> 65
Gln His Arg Lys
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Cura 374 CON seq list 0605

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<400> 66
Met Ile Leu Val
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<210> 67
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<212> PRT
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<400> 67
Met Ile Leu Phe
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<400> 68
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<400> 69
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<210> 72
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<400> 72
Asn Asp Glu Gln His Lys
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Cura 374 CON seq list 0605

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Asn Glu Gln His Arg Lys
1 5

<210> 74
<211> 4
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<213> Homo sapiens

<400> 74

Val Leu Ile Met
1